

Mole HW #4

1. You have a balloon containing 302 liters of pure nitrogen gas at STP. What does the gas weigh?
2. You love to snack on sucrose laden products like other normal teenager (if any exist at all!). There are 185 grams of this $C_{12}H_{22}O_{11}$ sucrose in a cake that you just ate. Of that mass, how many grams were just carbon?
3. Write the empirical formula for each listed compound.

